

## ABSTRACT

A method for maintaining data transmission from a corresponding node when a mobile node moves from a first access router to a second access router in 5 a network system, the method comprising: transmitting using the mobile node a home address of the mobile node and a one care-of address (CoA) assigned from the first access router to the corresponding node and a home agent, when the mobile node is located in the first access router; and transmitting using the mobile node the home address, the one CoA, and another CoA assigned from the 10 second access router to the first access router so that data from the corresponding node is received via the first access router and the second access router, when the mobile node moves from the first access router to the second access router and the second access router is located within a predetermined distance from the first access router.